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DD/S&T 1407-69

8 April 1969

MEMORANDUM FOR: See Distribution

25X1

SUBJECT : Revisions to the Project Officers Manual

- The Project Officers Manual has been regularly updated prior to the beginning of each fiscal year to reflect changes in policies, procedures, and practices. Particular attention is given to the list of Scientific and Technical Fields which are useful in providing insight to the technical content of the R&D program. Because the lists which have been used are generally compatible with similar lists used throughout the government, it is easy to respond to inquiries about the distribution of technical effort. While any list that combines scientific and engineering fields must be something of a conglomeration, much of the initial redundancy with elements used in the R&D program plan and with operational applications has been eliminated, and I have marked the attached list to identify additional items which may be considered for deletion beginning FY 70. These items have either seen little or no use in the past year, or the engineering and technical efforts to which they pertain can be adequately described by better field descriptors. The continuing objective is not just to reduce the list, but rather to improve its usefulness and accuracy in describing the technical and engineering areas of effort associated with the Agency's programs. For this reason any new technologies or new technical fields in which there is either a substantial current effort or an intended effort should be added to the list.
- 2. Recommended changes in all areas of the Project Officers Manual are solicited so these can be assembled, reviewed with the appropriate offices, and effected by the beginning of FY 70.

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Special Assistant to the R&D Coordinator

Attachment:

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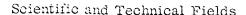
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(Item 2E, Glossary)

#### AERONAUTICS

Aerodynamics
Aeronautics
Aircraft
Avionics
Balloons
Helicopters
4 Parachutes

### ASTRONOMY AND ASTRO-PHYSICS

Astronomy and Astrophysics Radio Astronomy Solar Physics

#### ATMOSPHERIC SCIENCE

Atmospheric Science
Climatology
Cloud Physics
Ionosphere
Meteorology
Weather

Weather Modification

#### BEHAVIORAL & SOCIAL SCIENCE

Human Factors Engineering
Linguistics

3 Man-machine Interaction
Personnel Selection, Training
and Evaluation
Psychology
Sociology

#### BIOLOGICAL & MEDICAL

Aerospace Medicine Animal Studies Audiology Bacteriology
Biochemistry
Bioengineering
Biology
Bionics
Biophysics
Electrophysiology

1 Escape, Rescue and Survival

4 Life Support Systems
Microbiology
Medicine
Nutrition
Pharmacology
Veterinary Science
Vision
Zoology

#### CHEMISTRY

Analytical Chemistry
Biochemistry
Chemical Engineering
Chemistry
Thks
Inorganic Chemistry
Mass Spectroscopy
Organic Chemistry
Physical Chemistry
Radio & Radiation Chemistry

## COMMUNICATIONS Communications

1, 2 Clandestine Radio Communications
Command/Control
Communications Security
1, 2 Staff Communications

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#### COMPUTERS & APPLICATIONS

Audio Analysis
Automation
Computer Science

V-22

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Computers and Applications

Cybernetics

Data Processing

Display Systems

Documentation

Graphic Analysis

Information Storage/Retrieval

4 Machine Translation

Pattern Recognition

Waveform Analysis

### EARTH SCIENCES & OCEANO-GRAPHY

Aquatic Sciences

Cartography

Earth Sciences

Geodesy

Geography

Geology

Geophysics

Oceanography

Seismology

Soil Science

# ELECTRONICS & ELECTRICAL ENGINEERING

Antennas

Audio Devices

Audio Countermeasures

Direction Finding

Electrical Engineering

Electron Devices

Electronics

Electronic Countermeasures

Lasers

3 <u>Magnetism</u>

Masers

Microwaves

Microelectronics

Radar

Radio Engineering

Radio Propagation

Telemetry

Television Transducers

#### ENERGY CONVERSION

Energy Conversion Energy Sources

#### MATERIALS

Adhesives

Alloys

Ceramics

Coatings

Fibers

Materials

Metallurgy

Paper

Plastics

Textiles

Wire and Cable

#### MATHEMATICS

Mathematics

Statistics

Operations Research

MECHANICAL, INDUSTRIAL

CIVIL & MARINE ENGINEERING

Air Conditioning

Architecture

Civil Engineering

Illumination

Industrial Engineering

Marine Engineering

Mechanical Engineering

#### METHODS AND EQUIPMENT

Instrumentation

Measuring Devices

Operations Research

Recording Devices

Reprography

V-23

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System Analysis and Design Testing

#### 4 MISSILE TECHNOLOGY

- 4 Wissile Laurehing & GSE
- Missilos

#### NAVIGATION

Guidance and Control System Navigation

# NUCLEAR SCIENCE & TECHNOLOGY

3 Energy Conversion Isotopes Nuclear Science & Technology Radiation

#### ORDNANCE

Ammunition Ballistics Guns Explosives Ordnance

# PHOTO SCIENCE AND MAPPING

Aerial Photography Cameras Cartography Chromatography Cinematography Geodesy Geography Mapping Optical Engineering Photogrammetry Photography & Photo Processes Photo Interpretation Viewing Systems

#### PHYSICS

Acoustics Crystallography Fluid Mechanics Holography Infrared Magnetism Magnetohydrodynamics Optics Physics Plasma Physics Radiation Spectroscopy Thermodynamics Ultraviolet X-Rays

# PROPULSION AND FUELS

Atomic Energy Combustion Fuels Propellants and Propulsion Reciprocating Engines

# SPACE TECHNOLOGY

Aerospace Science Launch-Vehioles-and-GSE Life Support Systems Recovery Systems

Spacecraft

Spacecraft Trajectories

- 1 Not a Scientific/Technical Field
- 2 Redundant with Program Planning ele-
- 3 Redundant or duplicative of other descriptors
- 4 Little use